





wherein the maximum aluminum containing points satisfy a composition formula of  $(\text{Al}_X\text{Ti}_{1-X})\text{N}$  (where X indicates an atomic ratio of 0.70 to 0.95), the minimum aluminum containing points satisfy a composition formula of  $(\text{Al}_Y\text{Ti}_{1-Y})\text{N}$  (where Y indicates an atomic ratio of 0.40 to 0.65), and

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